3/2 MECHANICAL VALVE ¼ PORT SERIES VM200

- 3/2 normally closed valve (& 5/3 twist selector)
- Variety of different actuators
- Cv 1.0 high flow

TECHNICAL SPECIFICATIONS

Fluid	Air
Operation pressure	0 ~ 9.9 Bar
Fluid temperature	5 ~ 60°C
Effective orifice (Cv factor)	19mm²(1.0)
Recommended lubricant	Turbine oil #1 (ISO VG32)
Port size	¼

HOW TO ORDER VM200 VALVE

VM2 ○ 0 — 02 — ○ ○

VALVE TYPE
3 .....3/2
5 .....5/3 (Actuator 35 only)

ACTUATOR
00 ...Basic type
01 ...Roller lever
01S ...Roller lever hard steel roller
02 ...One way trip
02S ...One way trip hard steel roller
05 ...Straight plunger
06 ...Roller plunger
06S ...Roller plunger hard steel roller
07 ...Cross roller plunger
07S ...Cross roller plunger hard steel roller
08 ...Toggle
30 ...Push Button–Mushroom
32 ...Push button–Extended
33 ...Push button–Flush
34 ...Twist selector (2 position)
35 ...Twist selector (3 position)
36 ...Key selector
40 ...Foot pedal

PUSH BUTTON COLOUR
R .....Red
G .....Green
B .....Black

HOW TO ORDER VM200 **ACTUATOR ONLY**

.....PART NO. APPLICATION

MECHANICAL OPERATION

Basic.....
Roller lever .....VM-01A .....Polyacetal roller
Roller lever .....VM-01AS ...Hardened Steel Roller
One way trip.....VM-02A .....Polyacetal roller
One way trip.....VM-02AS ...Hardened Steel Roller
Straight plunger .....VM-05A .....Polyacetal roller
Roller plunger .....VM-06A .....Polyacetal roller
Roller plunger .....VM-06AS ...Hardened Steel Roller
Cross roller plunger .....VM-07A .....Polyacetal roller
Cross roller plunger .....VM-07AS ...Hardened Steel Roller

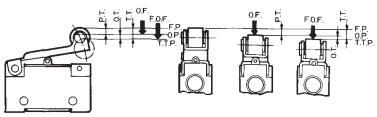
MANUAL OPERATION

Toggle .....VM-08A .....
Push Button–Mushroom ...VM-30AR ...Red
Push Button–Mushroom ...VM-30AB ...Black
Push Button–Mushroom ...VM-30AG ...Green
Push button–Extended .....VM-32AR ...Red
Push button–Extended .....VM-32AB ...Black
Push button–Extended .....VM-32AG ...Green
Push button–Flush .....VM-33A .....All colours
Twist selector .....VM-34AR ...Red
Twist selector .....VM-34AB ...Black
Twist selector .....VM-34AG ...Green
Key selector .....
5/3 twist selector.....Red
5/3 twist selector.....Black
5/3 twist selector.....Green
Foot pedal .....

SAFETY

If these valves are used for guarding or safety interlock systems, installation and application should be as per BS5304: 1988. Careful note should be taken of the operating principles and design of different ranges of mechanical valves when specifying valves for safety related systems.

KEY TO DIMENSIONAL TABLES



F.O.F. (Full Operating Force) ...Required force to total travel position
P.T. (Pre Travel).....From free position to initial valve opening position
O.T. (Over Travel).....From initial valve opening position to total travel position
T.T. (Total Travel) .....From free position to total travel position

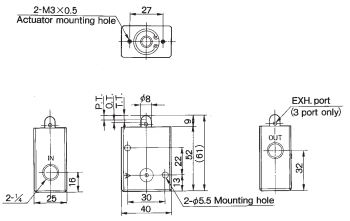
STOCKED PRODUCTS

FOR A LIST OF STOCKED PRODUCTS, PLEASE SEE THE CURRENT SMC PRICE LIST

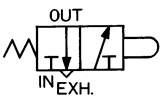
DIMENSIONS SEE NEXT PAGE ☞

Valves

DIMENSIONS
VM200 BASIC VALVE



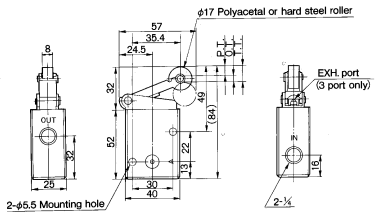
SYMBOLS
VM200 BASIC VALVE



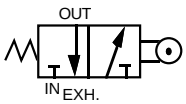
F.O.F*	52N
P.T.	3mm
O.T.	2mm
T.T.	5mm

*5 Bar supply

DIMENSIONS
VM200 ROLLER LEVER



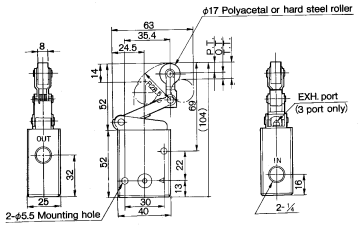
SYMBOLS
VM200 ROLLER LEVER



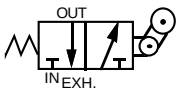
F.O.F*	24N
P.T.	6.5mm
O.T.	4.5mm
T.T.	11mm

*5 Bar supply

DIMENSIONS
VM200 ONE WAY TRIP



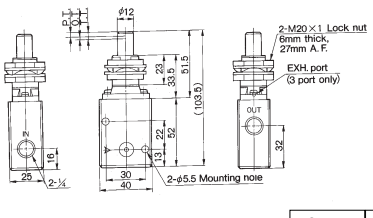
SYMBOLS
VM200 ONE WAY TRIP



F.O.F*	22N
P.T.	7mm
O.T.	5mm
T.T.	12mm

*5 Bar supply

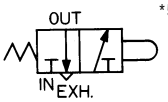
DIMENSIONS
VM200 STRAIGHT PLUNGER



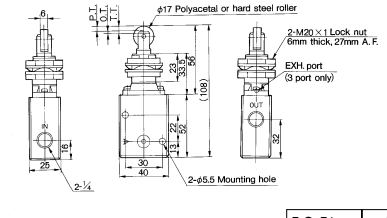
F.O.F*	56N
P.T.	3.5mm
O.T.	2mm
T.T.	5.5mm

*5 Bar supply

SYMBOLS
VM200 STRAIGHT PLUNGER



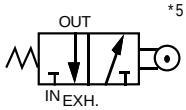
DIMENSIONS
VM200 ROLLER PLUNGER



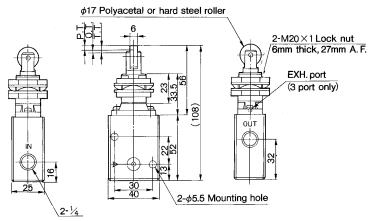
F.O.F*	56N
P.T.	3.5mm
O.T.	2mm
T.T.	5.5mm

*5 Bar supply

SYMBOLS
VM200 ROLLER PLUNGER



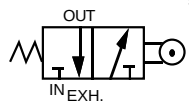
DIMENSIONS
VM200 CROSS ROLLER PLUNGER



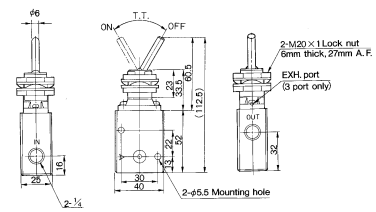
F.O.F*	56N
P.T.	3.5mm
O.T.	2mm
T.T.	5.5mm

*5 Bar supply

SYMBOLS
VM200 CROSS ROLLER PLUNGER



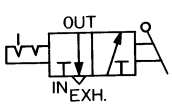
DIMENSIONS
VM200 TOGGLE LEVER



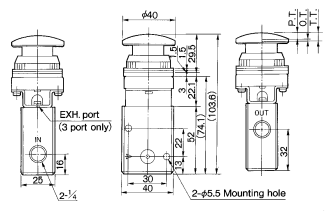
F.O.F*	52N
T.T.	5mm

*5 Bar supply

SYMBOLS
VM200 TOGGLE LEVER



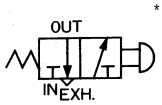
DIMENSIONS
VM200 PUSH BUTTON–MUSHROOM



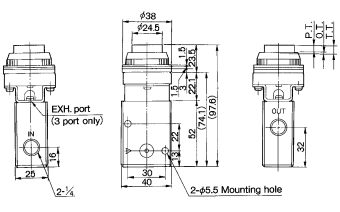
F.O.F*	52N
P.T.	4.9mm
O.T.	1.6mm
T.T.	6.5mm

*5 Bar supply

SYMBOLS
VM200 PUSH BUTTON–MUSHROOM



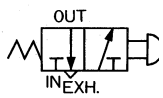
DIMENSIONS
VM200 PUSH BUTTON–EXTENDED



F.O.F*	52N
P.T.	4.9mm
O.T.	1.6mm
T.T.	6.5mm

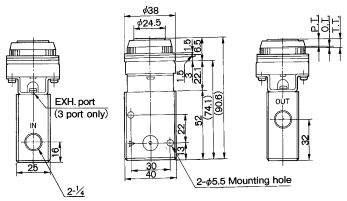
*5 Bar supply

SYMBOLS
VM200 PUSH BUTTON–EXTENDED

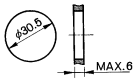


FOR FURTHER TECHNICAL DETAILS ON THIS PRODUCT REQUEST CATALOGUE REFERENCE E104

DIMENSIONS
VM200 PUSH BUTTON–FLUSH



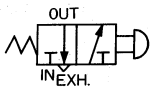
Panel mount hole



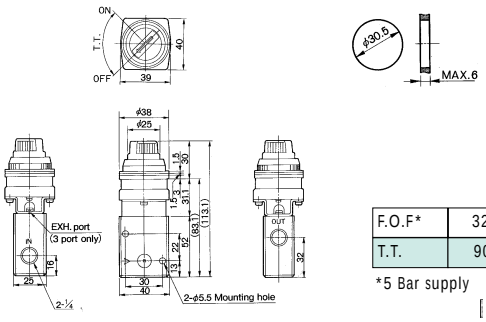
F.O.F*	52N
P.T.	4.9mm
O.T.	1.6mm
T.T.	6.5mm

*5 Bar supply

SYMBOLS
VM200 PUSH BUTTON–FLUSH



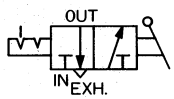
DIMENSIONS
VM200 TWIST SELECTOR - 2 POSITION



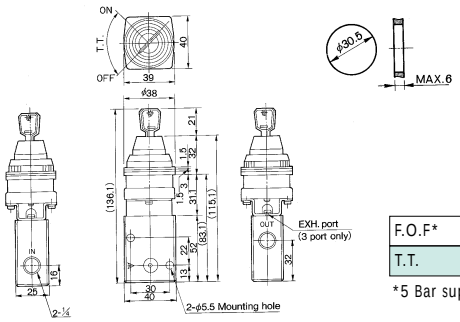
F.O.F*	32N
T.T.	90°

*5 Bar supply

SYMBOLS
VM200 TWIST SELECTOR - 2 POSITION



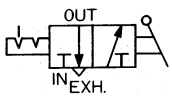
DIMENSIONS
VM200 KEY SELECTOR - 2 POSITION



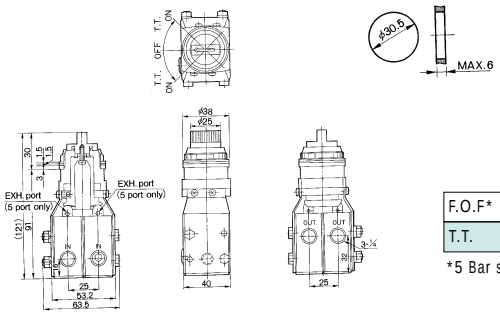
F.O.F*	32N
T.T.	90°

*5 Bar supply

SYMBOLS
VM200 KEY SELECTOR - 2 POSITION



DIMENSIONS
VM200 TWIST SELECTOR - 3 POSITION

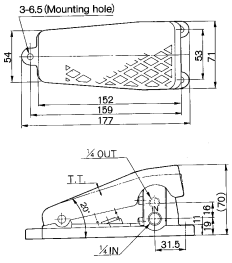


F.O.F*	40N
T.T.	45°

*5 Bar supply

SYMBOLS
VM200 TWIST SELECTOR - 3 POSITION

DIMENSIONS
VM200 FOOT PEDAL



F.O.F*	65N
T.T.	1.2°

*5 Bar supply

SYMBOLS
VM200 FOOT PEDAL